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Specific factors of schizophrenia (CIE-10/F20) examined with electroencephalographic analytical instruments

RESEARCH DEPARTMENT FOUNDATION 'S MAS i MANJON

ABSTRACT

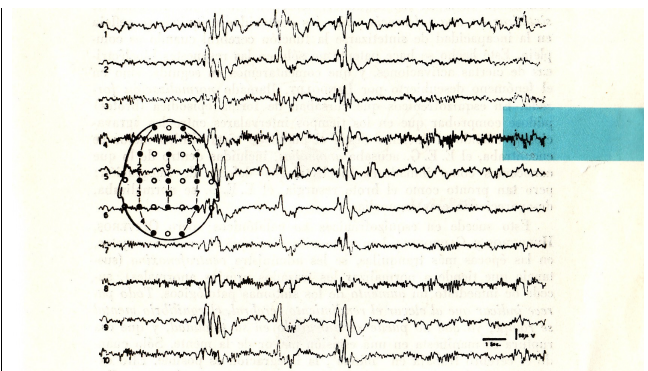
Specific factors of schizophrenia with EEG analytical instruments are observed.

Specific alpha waves in the parietal areas, resistance and a low threshold to convulsant reactivities. graph-elements similar to normal.

Experimental information.

Alpha rhythms in parietal areas

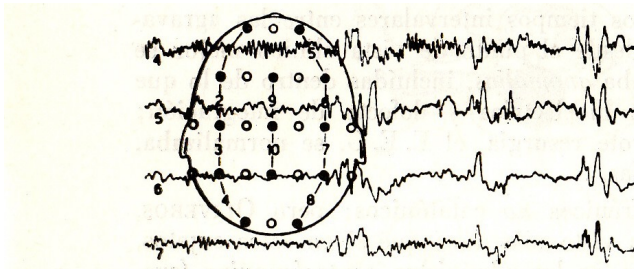
Often in the ECG of schizophrenics (CIE-10/F20), atypical location in parietal regions alpha rhythm, the rhythm predominating in these regions over the occipital regions. When shown a greater presence of alpha waves in schizophrenia, the greater the anxiety experienced by the subject.



Factors incipient stage (CIE-10/F20)

Incipient stage of schizophrenia (CIE-10/F20) in acute confusional consciousness disorders mode shown, slow wave than 4/5

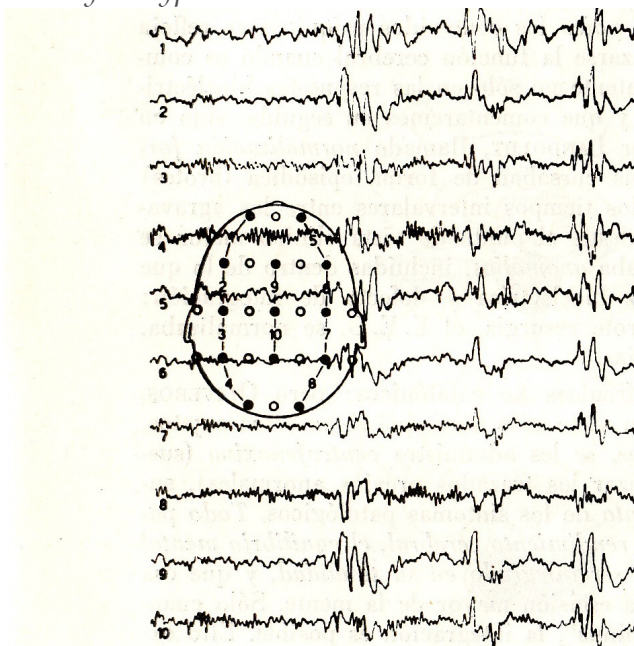
C / sec in the EEG, paroxysms fuzzy, as shown in symptomatic psychosis.



Normal limits, desynchronized activity

Established in schizophrenia, is observed in electroencephalography, the graph-elements are within the limits of normal.

Within the limits described, a graph-elements desynchronized activity is shown, without the subject does not experience suffering from anxiety or hyperalertness.



Layout is uniform (flat) and low voltage.

Intercalations are observed in the activities of rapid frequency theta waves, sporadic

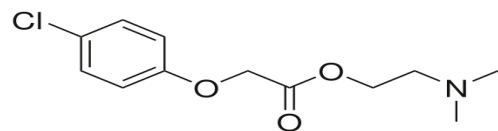
and isolated mode

Resynchronization of EEG tracing

Another feature observed is the resynchronization of the electroencephalographic to intermittent light stimulation path

Increase of pathological symptoms

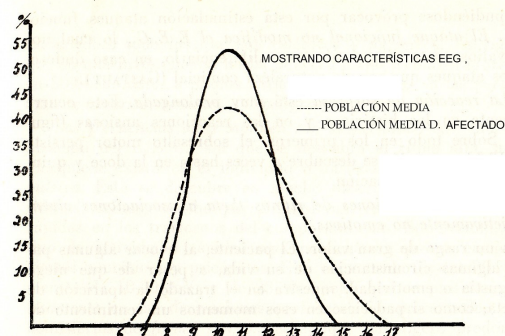
In experiments with (centrophenoxine) 2-dimethylaminoethyl (4-chlorophenoxy) acetate (Meclofenoxate), this substance tends to normalize abnormal tracings pre happens immediately increased pathological symptoms.



dimethylaminoethyl (4-chlorophenoxy) acetate

Rupture in the mental process

Showing that increasing brain performance, balance the mental process there is a rupture, not integrated into the whole. Manifested in an increase in the rupture cleavage mental process



Only when brain activity is in 'minus' integration into the mental process is possible (simplifying the complexity of brain function equals ease of integration)

Functionality in the EEG particularities

The functionality in the EEG shows two peculiarities.

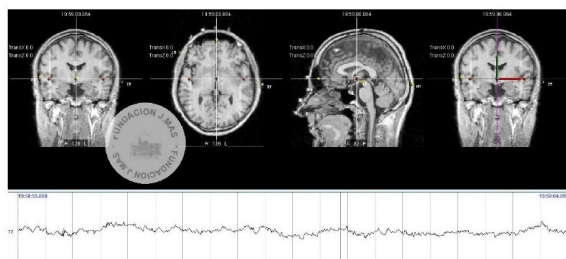
a1) absence of psychophysiological reactivity to stimulation.

b2) Excess reactivity to neurotoxic stimuli that may affect consciousness ..

psychophysiological stimulation

In the psychophysiological stimulations very small changes in the tracings (EEG) are observed.

1, based on increased resistance to normal blocking alpha waves in the opening and closing of the eyes, this is linked with schizophrenia disinterest in the outside world, being observed simultaneously in the confusional psychosis, with predominance of slow rhythms.



2, Lack of reactivity to electrical and thermal stimuli, being observed in the region of the hypothalamus reduced in schizophrenic activity, but in the non-schizophrenic subjects and in obsessive activity increases in the hypothalamic region, being observed alpha activity predominate and a higher

voltage.

3, a significant increase in resistance to hyperpnea, differing as an abnormal personality reaction, in situations in which the hyperpnea alter the path (the path schizophrenia modified resist) is observed in schizophrenia.

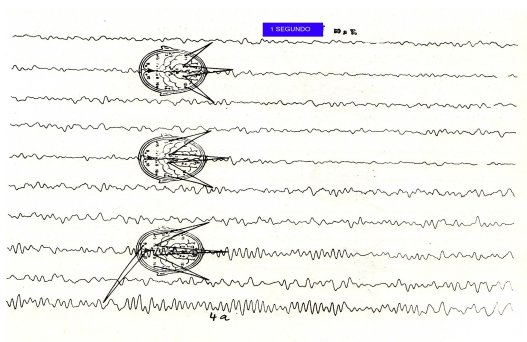
4, An observable characteristic in the EEG, is an increase of the shock damping effect, in other pathologies (CIAP-2/P75), somatoform disorders, dissociative disorders, the surprise effect is maintained in a very significant manner in the repetitions, But in the schizophrenic surprise effect shortly repeat the experience fades.

Response neurotoxic and convulsant stimulation threshold low reactivities.

However, the response to neurotoxic stimuli that affect mental process (awareness), the schizophrenic shows reactivity with relevant lability.

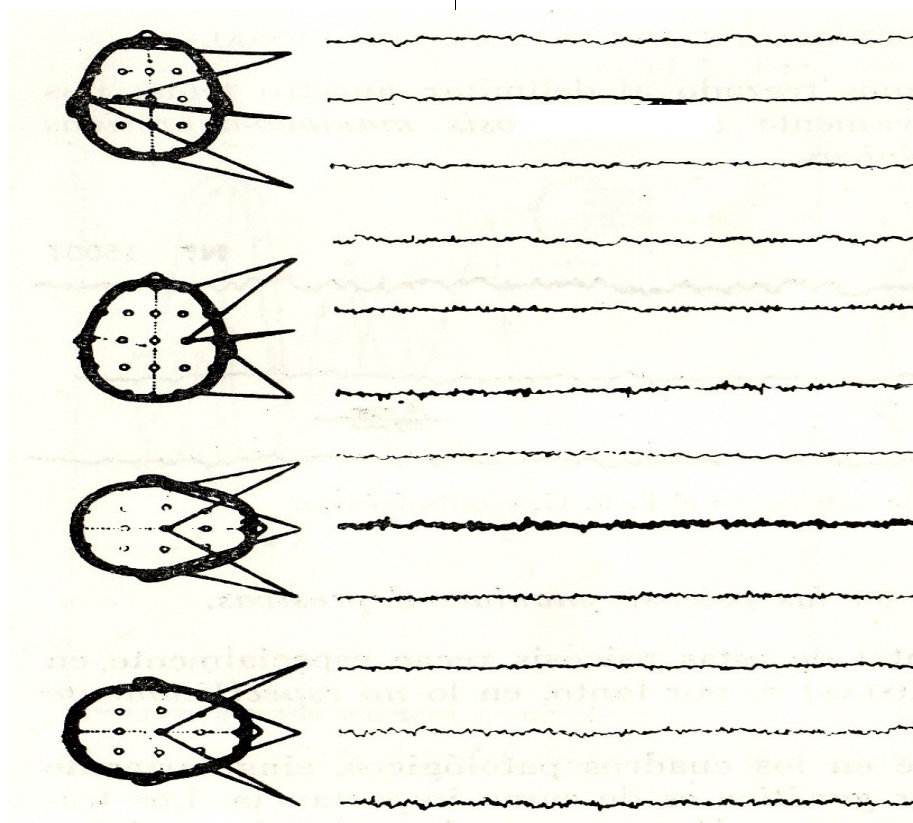
It is noteworthy that schizophrenia exhibits very low threshold in convulsive reactions.

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